

Figure 1 PRIOR ART

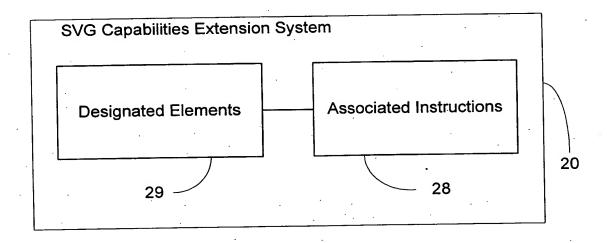


Figure 2

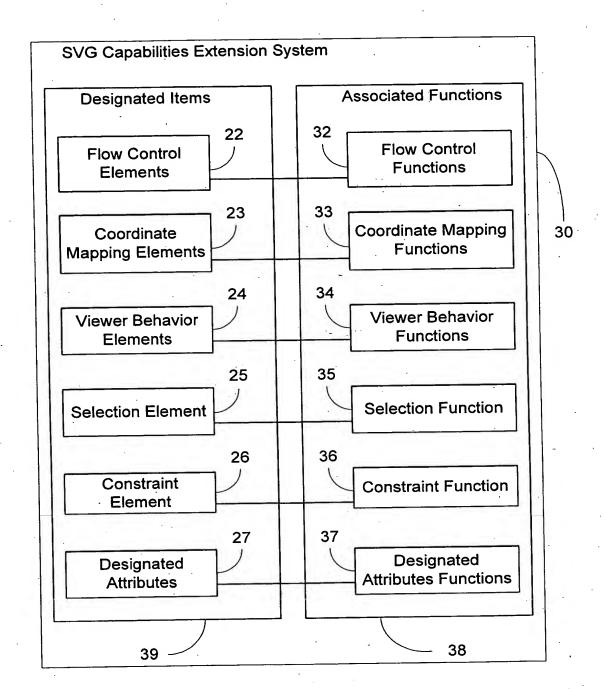


Figure 3

ISVG sample behavior: condition - i

☑ CheckBox

Check State

Check box selected state is true.

Content of file: dsvg:checkBox, dsvg:Button, dsvg:if, dsvg:setData The dsvg:if element executes or renders child elements based on a conditional if statement. (true/false)

Spin box

Switch: CASE for values 1,2,3

Switch: DEFAULT for other values

in all cases, the value will be reflected in the Label.

Value is two

Content of file: dsvg:spinBox, dsvg:switch, dsvg:case, dsvg:default
The dsvg:switch element compares conditions of the child dsvg:case element(s) along with the dsvg:default element values.

SVG sample behavior: loop

of times through the loop: 18

Count

Content of file: dsvg:loop, dsvg:button, dsvg:setData, dsvg:setAttribute The dsvg:loop element is a sequence of instructions that is continually repeated until a certain condition is reached.

dSVG sample behavlor: time









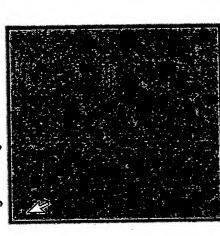


Selecting the button in the top portion will set the cx attribute for the circle. The bottom set of rects has 2 timer applied.

I moving forward to set each consecutive rect green. I starting at the last rect moving backwards turning each rect blue.

ISVG sample behavior: mousePosition

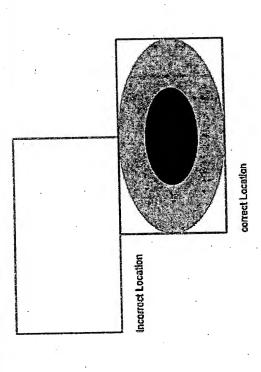
Target Rectangle



Relative Position Absolute Position X=10 X=60 Y=16 Y=86

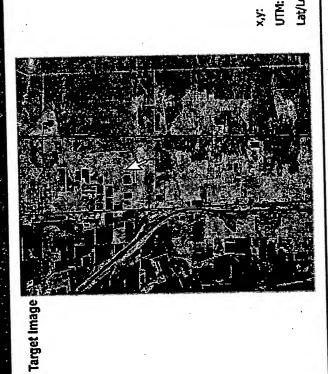
Content of file: dsvg:mousePosition, dsvg:setData
The dsvg:mousePosition element defines a container for holding the current mouse coordinates.
The coordinates can be tracked relative to the document or absolute to the parent element.

dSVG sample behavior: mapCoords



Content of file: dsvg.mapCoords, dsvg.pointPair, dsvg.sefAttribute
The dsvg.mapCoords element defines an object used for mapping from one coordinate space to another.
The resulting coefficients are determined by the coordinates of the point-pairs (child) elements.

SVG sample behavior: mapProj



126.5, 101

UTM: 348624, 3536350

Lat/Long: '31º 57' 10.92"N' '106º 36' 6.16"W'

Content of file: dsvg.mapProf, dsvg.mapCoords, dsvg:pointPair, dsvg:setData, dsvg.mousePosition
The dsvg:mapProf element defines an object used for mapping coordinates from one project system to another.
For example, "lationg" can be mapped to "UTM".

SVG sample behavior: alert





Content of file: dsvg:button, dsvg:alert
The dsvg:alert element is a dialog box used to display a custom message.

putes focus Group and focus

Click on the red, green and blue circles to set focus. green plue red

orange

Hover over the 'red', 'green' and 'blue' text elements to set focus.

The red, blue, green circles are part of the focus Group. The orange circle is not.

Figure 12A

Content of file: dsvg:focus, dsvg:setTransform, dsvg:setAttribute, dsvg:setStyle, (added attributes dsvg:focus, dsvg:focusGroup)
The dsvg:focusGroup attribute adds the ability to store the ID of similar type elements that are assigned to that group.

Default focus can be given to an element (red circle above) by adding the dsvg:focus attribute to that element.

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orange

Hover over the 'red', 'green' and 'blue' text elements to set focus. Click on the red, green and blue circles to set focus. green plue ed

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Figure 12B

dSVG sample behavior: action and listener

Click the button(s) to execute the behaviors.

Fire action 1. Sample of an indirect 'action / listener' observed by a UI Control.

Fire action

2. Sample of a direct 'action' set up as child of the UI Control.

Target circle

Mouseover the SVG shapes to execute the behaviors.



3. Sample of an indirect 'action / listener' observed by a basic SVG element.



4. Sample of a direct 'action' set up as a child of a basic SVG element.

Actions can be associated indirectly using a listener element, or they can be set up directly as a child of an observing element. The dsvg action element is a container for other dSVG behavior elements.

Content of file: dsvg:action, dsvg:listener

Figure 13A

dSVG sample behavior: action and listener

Click the button(s) to execute the behaviors.

File action

1. Sample of an indirect 'action / listener' observed by a UI Control.

Target circle

Fire action

Sample of a direct 'action' set up as child of the UI Control.

Mouseover the SVG shapes to execute the behaviors.



3. Sample of an indirect 'action' / listener' observed by a basic SVG element.



4. Sample of a direct 'action' set up as a child of a basic SVG element.

Figure 13B

Actions can be associated indirectly using a listener element, or they can be set up directly as a child of an observing element.

Content of file: dsvg:action, dsvg:listener The dsvg:action elements of the dsvg:action element is a container for other dSVG behavior elements.

SVG sample behavior: variable



Note: Once the button is selected, setAttribute is applied to the blue rect so width="previous '\$varRect' value"



SvarRect = redRect@width + blueRect@width



\$varRect = 100

Content of file: dsvg:variable
The dsvg:variable element is able to assume different values.
Selecting the button will set a new value for the 'variable' (\$varRect).

Figure 14A

ISVG sample behavior: variable



Note: Once the button is selected, sel'Attribute is applied to the blue rect so width="previous '\$varRect' value"



\$varRect = redRect@width + blueRect@width



\$varRect = 150

Content of file: dsvg:variable
The dsvg:variable element is able to assume different values.
Selecting the button will set a new value for the 'variable' (\$varRect).

Figure 14B

dSVG sample. Share element

List box: (default attributes with the added attribute dsvg:share)
STOP
YIELD
GO

Combo box: (default attributes with the added attribute dsvg:share)

STOP YIELD GO

The share element is used to share a group of items with multiple elements.

This document shares the same set of items with the combo box and the list box.

Associate a share element with other elements by adding a dsvg.share attribute to the element that references the share element.

dSVG sample: drag (added attribute)

Select each of the objects and attempt to drag to another position.

Blue circle has drag="true"

Button has drag="true"

(enn)) (sup

Red circle has drag="false"

Button has drag="false"



Content of file: dsvg:drag The dsvg:drag attribute is applied to elements to set the drag to either true or false.

Figure 16A

Select each of the objects and attempt to drag to another position.

Blue circle has drag="true"

Button has drag="true"

(any) Geop

Button has drag="false"

ें (diag (false) 🖓

Figure 16B



Content of file: dsvg:drag The dsvg:drag attribute is applied to elements to set the drag to either true or false.

es focus Group and focus dSVG sample behavior: focus - with added attribu

click on the red, green and blue circles to set focus.

Hover over the 'red', 'green' and 'blue' text elements to set focus.

The red, blue, green circles are part of the focus Group. The orange circle is not.

Content of file: dsvg:focus, dsvg:setTransform, dsvg:setAttribute, dsvg:setStyle, (added attributes dsvg:focus, dsvg:focusGroup)
The dsvg:focusGroup attribute adds the ability to store the ID of similar type elements that are assigned to that group.
Default focus can be given to an element (red circle above) by adding the dsvg:focus attribute to that element.

Figure 17A

focus Group and focus

Led Led

blue green orange

Click on the red, green and blue circles to set focus.

Hover over the 'red', 'green' and 'blue' text elements to set focus.

The red, blue, green circles are part of the focus Group. The orange circle is not.

Content of file: dsvg:focus, dsvg:setTransform, dsvg:setAltribute, dsvg:setStyle, (added attributes dsvg:focus, dsvg:focusGroup) The dsvg:focusGroup attribute adds the ability to store the ID of similar type elements that are assigned to that group. Default focus can be given to an element (red circle above) by adding the dsvg:focus attribute to that element.

Figure 17B

dSVG sample: zoomAndPan (added attribute)

Select the Zoom In / Zoom Out buttons.









dsvg.zoomAndPen stirbutes applied to: Red circle (disabled) Blue circle (magnify)

Content of file: dsvg:zoom, dsvg:zoomAndPan
The dsvg:zoom element will zoom in / zoom out by the amount specified in the scale attribute.

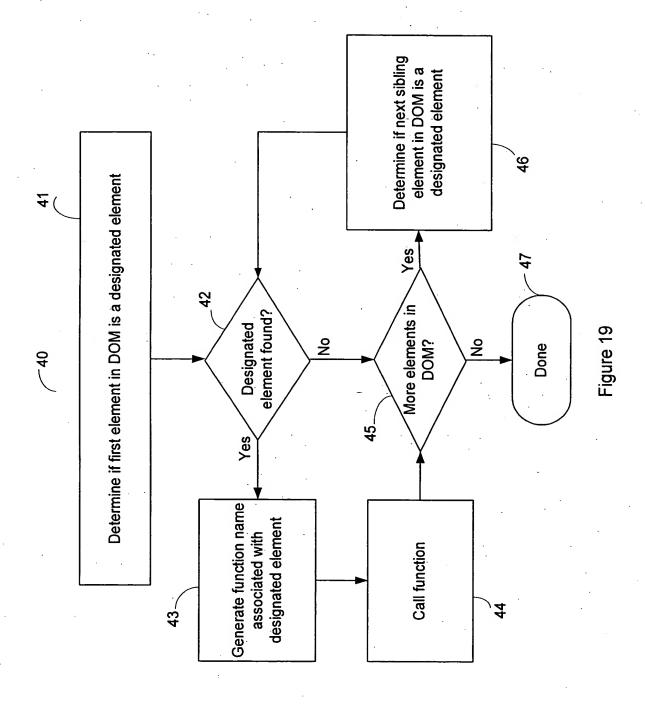
Figure 18A

Select the Zoom In / Zoom Out buttons.









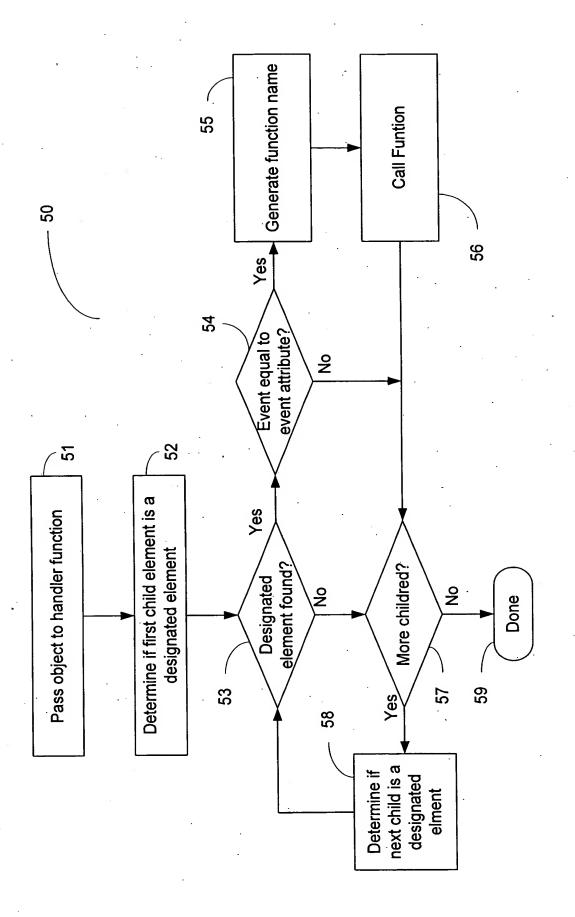


Figure 20

